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Angle-resolved photoemission evidence for a Gd(0001) surface stateDongqi Li^a, C.W. Hutchings^{1, a}, P.A. Dowben^{},^a, C. Hwang^b, Rong-Tzong Wu^b, M. Onellion^b, A.B. Andrews^c and J.L. Erskine^c^aDepartment of Physics, Syracuse University, Syracuse, NY 13244-1130, USA^bDepartment of Physics, University of Wisconsin, Madison, WI 53706, USA^cDepartment of Physics, University of Texas, Austin, TX 78712, USA

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Abstract

From angle resolved photoemission we have observed a surface state on Gd(0001) near the Fermi energy in the vicinity of $\bar{\Gamma}$ in agreement with a recently calculated band structure. This surface state is of prominent character (Δ_1) at $\bar{\Gamma}$. The observation of this surface state can be correlated with the development of the gadolinium bulk band structure which occurs with increasing film thickness as gadolinium films are grown on W(110).

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